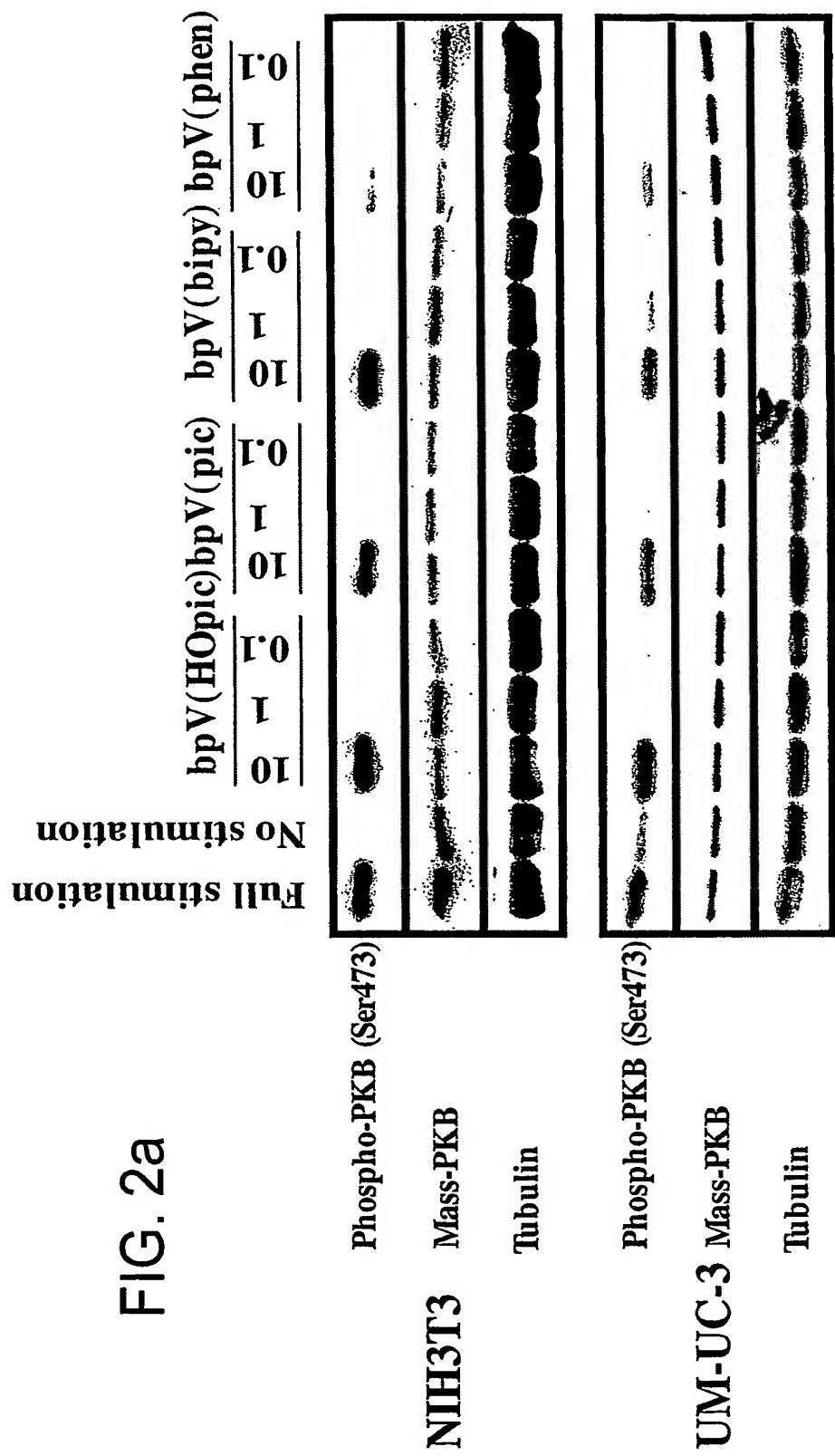
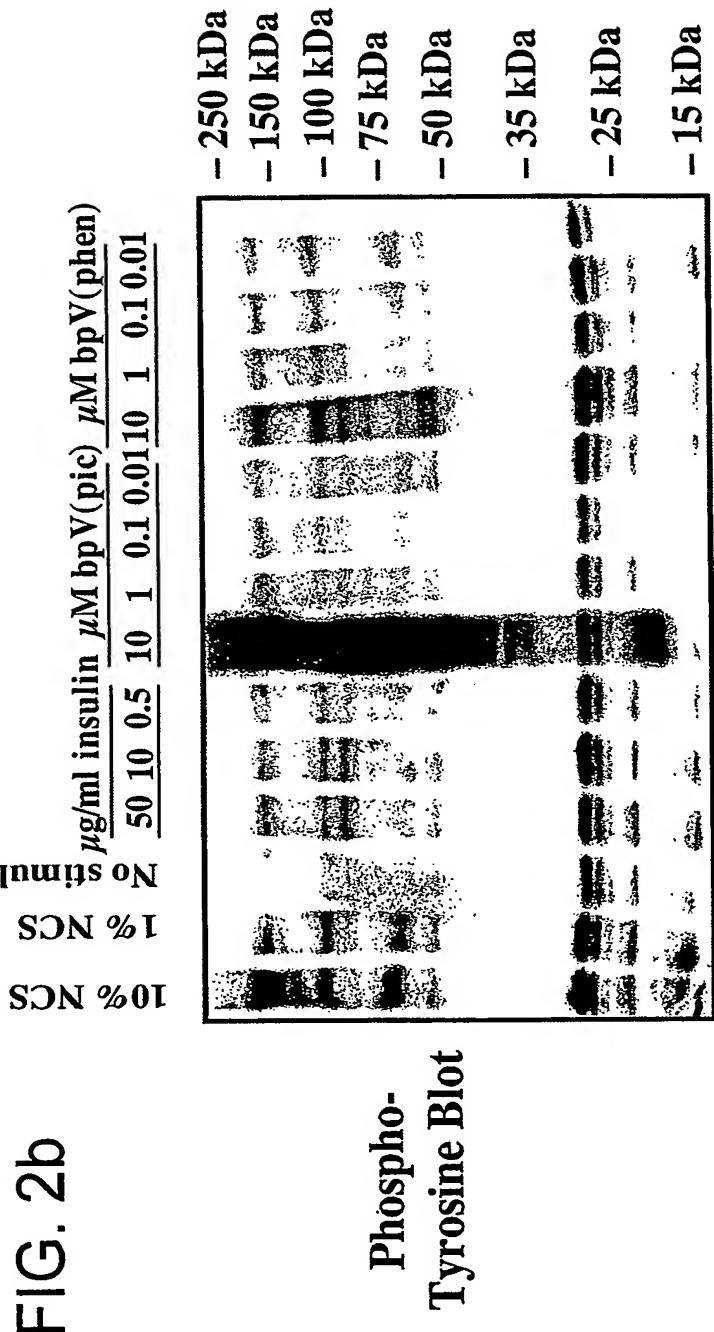


FIG. 1 **IC₅₀ values**

	Aromatic bpVs		Polar bpVs	
inhibitor enzyme	bpV (bipy)	bpV (phen)	bpV (HOPic)	bpV (pic)
PTP- β	60.3 nM +/- 9.6	343 nM +/- 88.5	4.9 μ M +/- 0.9	12.7 μ M +/- 3.2
PTP-1B	164 nM +/- 22.6	920 nM +/- 45.2	25.3 μ M +/- 2.9	61 μ M +/- 10.5
PTEN	18 nM +/- 0.8	38 nM +/- 2.4	14 nM +/- 2.3	31 nM +/- 1.7





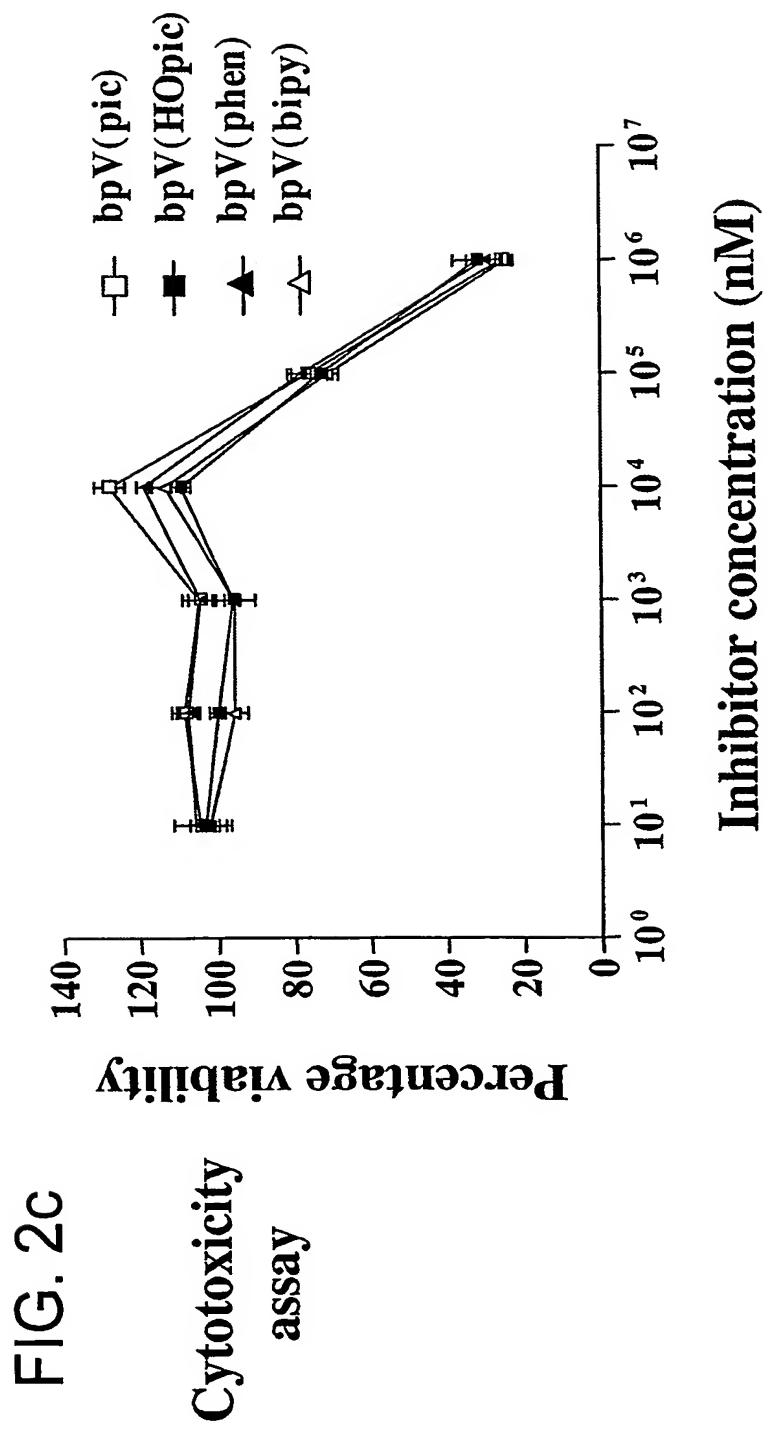


FIG. 3 bpV(pic) bpV(phen)

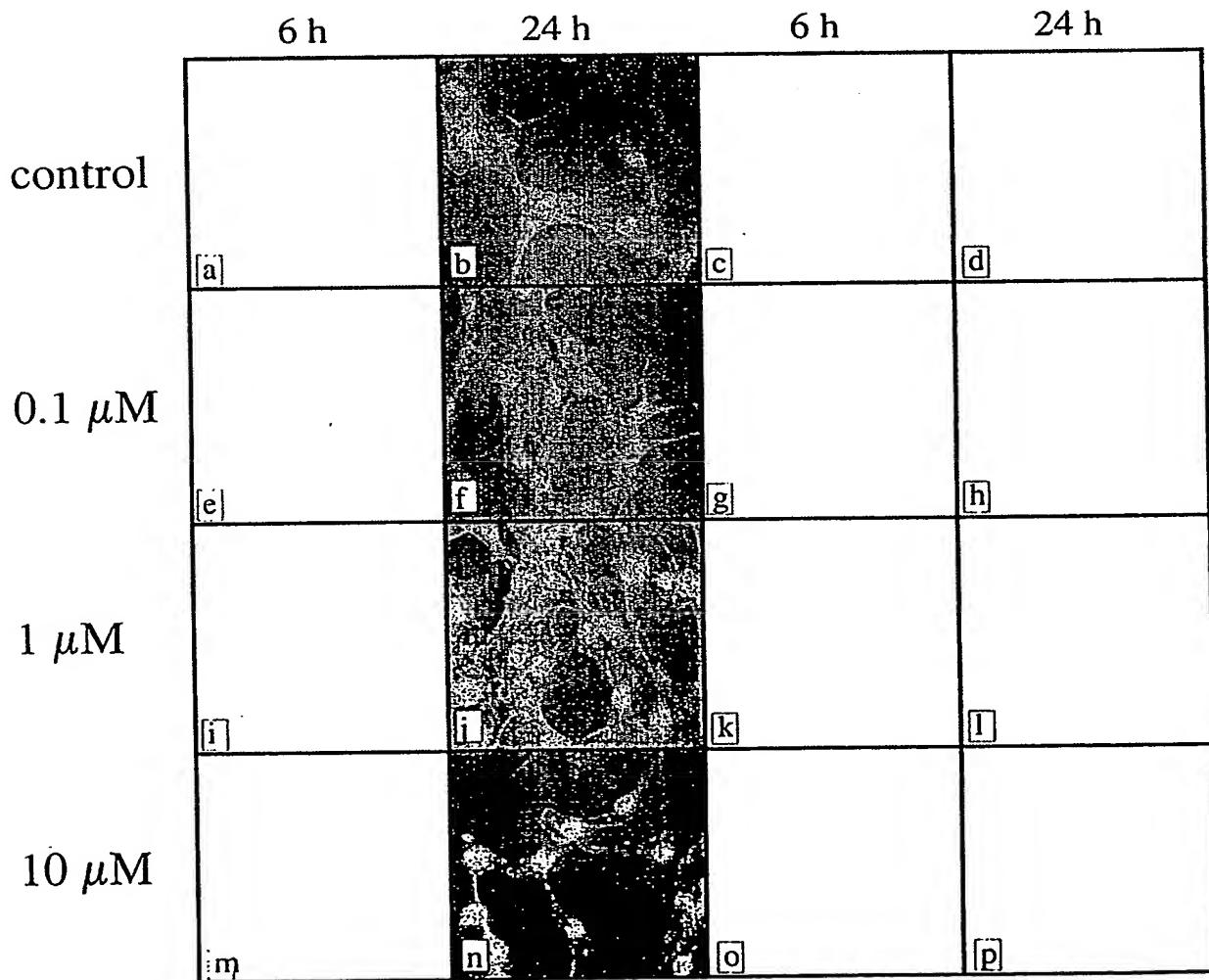
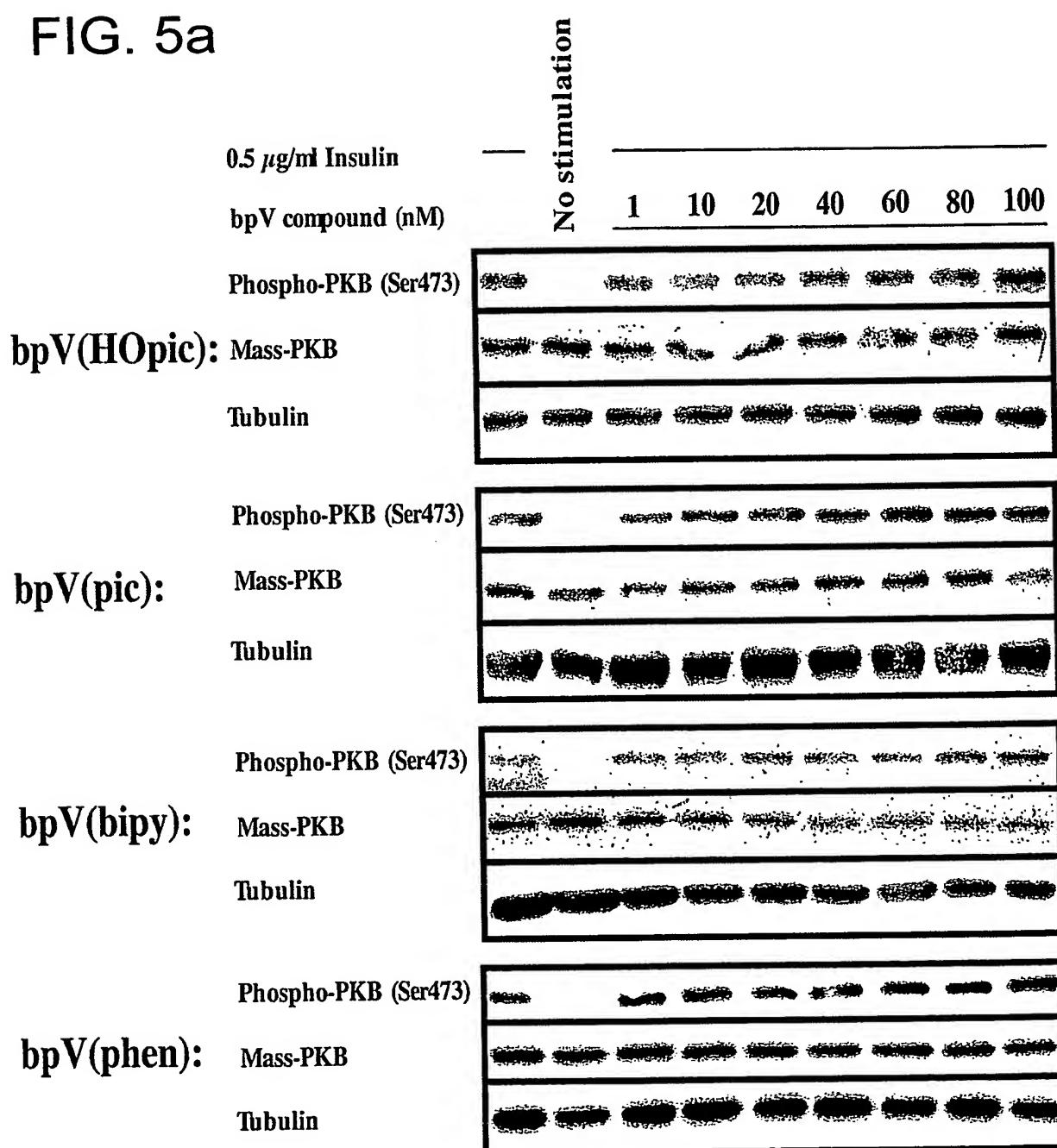
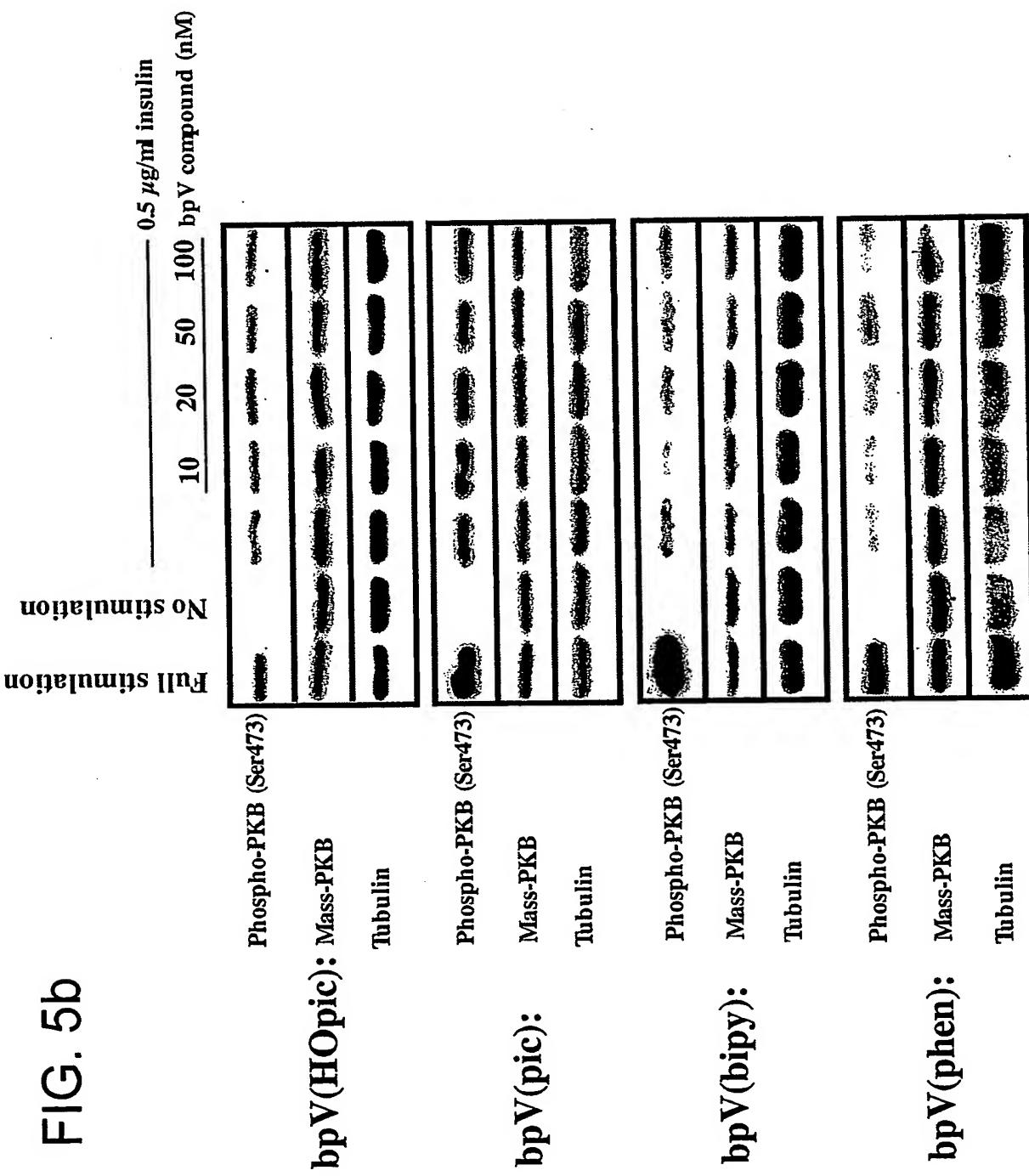


FIG. 4



FIG. 5a





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FIG. 6

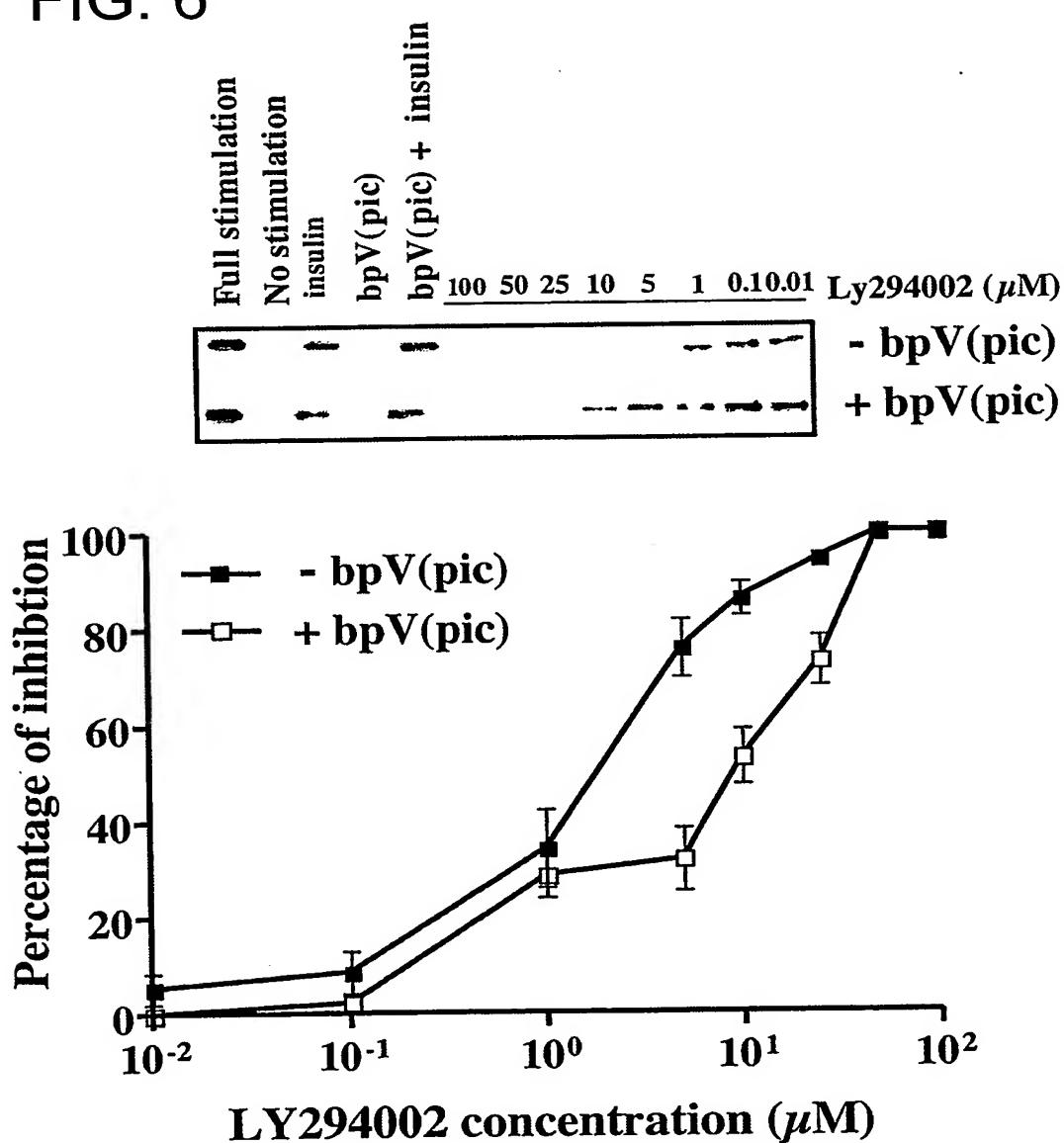


FIG. 7

property	inhibitor class	polar inhibitors	aromatic inhibitors
Cytotoxicity	MTT actin	high μ molar μ molar	high μ molar μ molar
Insulin mimetic	pSer473(PKB) pTyr	μ molar μ molar	μ molar μ molar
PTP inhibition	<i>in vitro</i>	high nanomolar	
PTEN inhibition	<i>in vitro</i>	low nanomolar	low nanomolar
	<i>in vivo</i>	nanomolar	nanomolar
Inhibitor sensitivity	rapamycin (PKB)	stimulates phosphorylation	
	Ly294002 (pTyr)	inhibits phosphorylation	